



P.B. 5818 - Patent
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Zeichen/Ref./Réf. PO24056EP: HGH	Anmeldung Nr./Application No./Demande n° // Patent Nr./Patent No./Brevet n° 98946105.8-2105/US9819478
Anmelder/Applicant/Demandeur//Patentinhaber/Proprietor/Titulaire THE TRUSTEES OF THE UNIVERSITY OF PENNSYLVANIA	

COMMUNICATION

The European Patent Office herewith transmits the partial European search report under Rule 46(1) EPC relating to the above-mentioned European patent application.

Copies of the documents cited in the search report are enclosed.

The applicant's attention is drawn to the following:

The search Division informs the applicant that if the European search report is also to cover inventions other than the invention first mentioned in the claims, a further search fee must be paid for each of these inventions, within ONE MONTH after notification of this communication.

If the application has been filed up to 30 June 1999, the search fee in force before 01 July 1999 (EUR 869.--) or the equivalent applicable on the date of payment is payable.

This applies also to the search fees requested under Rule 46(1) EPC.

See also OJ EPO 06/1999, 405.

Moreover, the Search Division considers that the present European patent application does not comply with the provisions of the European Patent Convention to such an extent that it is not possible to carry out a meaningful search into the state of the art on the basis of some of the claims; reference is made to sheet C, which is attached to the search report.

- ☐ The abstract was modified by the Search Division and the definitive text is attached to the present communication.
- ☒ Additional set(s) of copies of the documents cited in the European search report is (are) attached as well.

Note to users of the automatic debiting procedure:

Unless the EPO receives prior instructions to the contrary, the search fee(s) will be debited on the last day of the period for payment. For further details see the Arrangements for the automatic debiting procedure, Supplement to OJ EPO 02/1999.



REGISTERED LETTER



European Patent
Office

**SUPPLEMENTARY
PARTIAL EUROPEAN SEARCH REPORT**

Application Number

under Rule 46; paragraph 1 of the European Patent Convention

EP 98 94 6105

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.6)
D,X	NL. MICHAEL ET AL., : "Defective accessory genes in a human immunodeficiency virus type 1-infected long-term survivor lacking recoverable virus" J. VIROL., vol. 69, no. 7, July 1995 (1995-07), pages 4228-4236, XP002171662	1,3	A61K38/00 A61K39/40 A61K39/42 A61K39/38 A61K39/21 A61K39/12 A61K39/395 C07H21/02 C07H21/04 C07K1/00
Y	* the whole document, in particular page 4235 left-column last paragraph *	2,4-11, 13-20	
X	KIM J J ET AL: "Development of a multicomponent candidate vaccine for HIV-1" VACCINE,GB,BUTTERWORTH SCIENTIFIC. GUILDFORD, vol. 15, no. 8, 1 June 1997 (1997-06-01), pages 879-883, XP004075675 ISSN: 0264-410X	12	
Y	* the whole document *	7-11, 13-20	
			TECHNICAL FIELDS SEARCHED (Int.Cl.6)
			C07K
LACK OF UNITY OF INVENTION			
The Search Division considers that the present European patent application does not comply with the requirements of unity of invention and relates to several inventions or groups of inventions, namely:			
see sheet B			
The present partial European search report has been drawn up for those parts of the European patent application which relate to the invention first mentioned in the claims.			
Place of search		Date of completion of the search	Examiner
MUNICH		11 July 2001	Julia, P
CATEGORY OF CITED DOCUMENTS			
X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document		T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document	

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EPO FORM 1503 03.82 (P04C23)



DOCUMENTS CONSIDERED TO BE RELEVANT			CLASSIFICATION OF THE APPLICATION (Int.Cl.6)
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	
✓ D,X	U. WIELAND ET AL.: "In vivo genetic variability of the HIV-1 vif gene" VIROLOGY, vol. 203, no. 1, 15 August 1994 (1994-08-15), pages 43-51, XP000999254	1,3	
Y	* the whole document *	2,4-6	
✓ D,X	T. NAGASHUNMUGAM AND HM FRIEDMAN: "Cell-free HIV-1Zr6 vif mutants are defective in binding to peripheral blood mononuclear cells and in internalization" DNA CELL BIOL, vol. 15, no. 5, May 1996 (1996-05), pages 353-361, XP000999264	1,3,7, 12,18	
Y	* the whole document *	12-20	TECHNICAL FIELDS SEARCHED (Int.Cl.6)
Y	MILLER R H ET AL: "HIV ACCESSORY PROTEINS AS THERAPEUTIC TARGETS VIRAL REGULATORY PROTEINS REPRESENT NEW TARGETS FOR THERAPEUTIC AND PREVENTION STRATEGIES AGAINST HIV" NATURE MEDICINE, NATURE PUBLISHING, CO, US, vol. 3, no. 4, April 1997 (1997-04), pages 389-394, XP001005617 ISSN: 1078-8956 * the whole document, in particular last full-paragraph on page 393 and paragraph bridging pages 393-394 *	12-20	
✓ D,X	P. SOVA ET AL.: "Conservation of an intact human immunodeficiency virus type 1 vif gene in vitro and in vivo" J. VIROL, vol. 69, no. 4, April 1995 (1995-04), pages 2557-2564, XP002171663 * the whole document *	1,3	

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DOCUMENTS CONSIDERED TO BE RELEVANT			CLASSIFICATION OF THE APPLICATION (Int.Cl.6)
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	
X	WIELAND U ET AL: "ANTIGENIC DOMAINS OF THE HIV-1 VIF PROTEIN AS RECOGNIZED BY HUMAN SERA AND MURINE MONOCLONAL ANTIBODIES" AIDS RESEARCH AND HUMAN RETROVIRUSES, NEW YORK, NY, US, vol. 7, no. 11, November 1991 (1991-11), pages 861-867, XP001005425 ISSN: 0889-2229 * the whole document *	12,13	
X	WO 95 05851 A (VOLSKY DAVID J ; POTASH MARY JANE (US); ST LUKE S ROOSEVELT HOSPITA) 2 March 1995 (1995-03-02) * the whole document, in particular figure 5 and page 16 lines 27-34 *	1,3	TECHNICAL FIELDS SEARCHED (Int.Cl.6)
P,X	V. AYYAVOO ET AL., : "Development of genetic vaccines for pathogenic genes : construction of attenuated vif DNA immunization cassettes" AIDS, vol. 11, no. 12, October 1997 (1997-10), pages 1433-1444, XP001005662 * the whole document *	1-20	

**ANNEX TO THE EUROPEAN SEARCH REPORT
ON EUROPEAN PATENT APPLICATION NO.**

EP 98 94 6105

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report. The members are as contained in the European Patent Office EDP file on
The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

11-07-2001

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
WO 9505851 A	02-03-1995	AU 7568794 A	21-03-1995